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NOTICE OF ALLOWANCE AND FEE(S) DUE

23373

7590

08/10/2009

SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037 EXAMINER

TOTH, KAREN E

ART UNIT PAPER NUMBER

3735

DATE MAILED: 08/10/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/731,816	12/09/2003	David Burton	24,577-20US	4416

TITLE OF INVENTION: METHODS AND APPARATUS FOR MONITORING CONSCIOUSNESS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	11/10/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			or agents OR, alter (2) the name of a s registered attorney	s of up to 3 registered patent attorneys alternatively, of a single firm (having as a member a prince) and the names of up to patent attorneys or agents. If no name is				
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10/731,816	12/09/2003	David Burton	24,577-20US 4416			
23373	23373 7590 08/10/2009			EXAMINER		
SUGHRUE MI	ON, PLLC	TOTH, KAREN E				
	VANIA AVENUE, N.V	ART UNIT	PAPER NUMBER			
SUITE 800 WASHINGTON	, DC 20037		3735 DATE MAILED: 08/10/2009			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 546 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 546 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)			
	10/731,816	BURTON ET AL.			
Notice of Allowability	Examiner	Art Unit			
	KAREN E. TOTH	3735			
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included n will be mailed in due course. THIS			
1. X This communication is responsive to the remarks and ame	ndment filed 27 April 2009.				
2. \boxtimes The allowed claim(s) is/are $8,56-58,61,63-65,67,69-73$ and	<u>178</u> .				
3. Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☒ None of the:					
 Certified copies of the priority documents have 	e been received.				
Certified copies of the priority documents have	been received in Application No	·			
3. Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the			
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftspers		-948) attached			
1) hereto or 2) to Paper No./Mail Date	•	,			
(b) ☐ including changes required by the attached Examiner's		Office action of			
Paper No./Mail Date		Silied determ of			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t					
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT					
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal F	Potent Application			
 Induce of References Cited (PTO-092) Induce of Profit Profi	6. ☐ Interview Summary				
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No./Mail Da	te .			
3. Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner's Amendi	ment/Comment			
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance			
of Biological Material 9. ☐ Other					
/Patricia C. Mallari/					
Primary Examiner, Art Unit 3735					
-					

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Art Unit: 3735

DETAILED ACTION

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Scott Davison on 31 July 2009.

The application has been amended as follows:

In claim 56, line 2, "EEG" has been amended to read "EEG (electroencephalogram)" for clarity.

In claim 69, lines 3-4, "60 Hz ASSR" has been amended to read "60 Hz ASSR (auditory steady state response)" for clarity.

In claim 78, lines 6-7, "one continuous biosignal" has been amended to read "one continuous biosignal using a processor".

In claim 80, line 4, "ms" has been amended to read "ms (milliseconds)"; line 8 has been amended from "MLAEP" to "MLAEP (middle latency audio evoked potential)".

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to anticipate or make obvious the methods of claims 56-58, 61, 63-65, 67, 69-73, 78, and 80, including, *inter-alia*, acquiring a first continuous

biosignal, stimulating an evoked potential response signal, deriving an evoked potential response signal from the first biosignal, deriving a first index of consciousness from the first biosignal, deriving a second index of consciousness from the evoked potential signal, and using the indices in a weighting process to determine whether a monitored being is entering or leaving consciousness based on the indices.

Chamoun (US 5320109) discloses a similar method of stimulating an evoked potential response signal and deriving indices of consciousness from the response signal, as discussed in more detail in earlier Office Actions, but does not disclose using a weighting process on the indices to classify the being's state of consciousness.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KAREN E. TOTH whose telephone number is (571)272-6824. The examiner can normally be reached on Mon thru Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor II can be reached on 571-272-4730. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Patricia C. Mallari/ Primary Examiner, Art Unit 3735

/K. E. T./ Examiner, Art Unit 3735